Author index to volume 306

Adzhubei, I.A. see A.A. Makarov 306 (1992) 63
Andersen, J.P. see B. Vilsen 306 (1992) 247
Andersen, J.P. see B. Vilsen 306 (1992) 213
Asard, H., N. Horemans and R.J. Caubergs, Transmembrane electron transport in ascorbate-loaded plasma membrane vesicles from higher plants involves a *b*-type cytochrome 306 (1992) 143
Ashmarin, I.P., R.A. Danilova, A.V. Pshezhetsky, I.M. Fedorova, M.F. Obukhova and S. Sagimbaeva, Alcohol dehydrogenase (ADH): Influence of homo- and heterologous ADH administration on albino rats craving for alcohol and on ADH isozyme activity in the liver 306 (1992) 38
Atsumi, T. see M. Nakazato 306 (1992) 206
Avetisyan, A.V., A.V. Bogachev, R.A. Murtasina and V.P. Skulachev, Involvement of a *d*-type oxidase in the Na^+-motive respiratory chain of *Escherichia coli* growing under low $\Delta\bar{\mu}_{H^+}$ conditions 306 (1992) 199
Bakhanashvili, M. and A. Hizi, Fidelity of the reverse transcriptase of human immunodeficiency virus type 2 306 (1992) 151
Banerjee, D.K., J.J. Tavárez and C.M. Oliveira, Expression of blood clotting Factor VIII:C gene in capillary endothelial cells 306 (1992) 33
Beabealashvilli, R.S. see A.A. Yuzhakov 306 (1992) 185
Bejarano, E.R. and E. Cerdá-Olmedo, Independence of the carotene and sterol pathways of *Phycomyces* 306 (1992) 209
Belmonte, G. see F. Gambale 306 (1992) 41
Berrier, C., A. Coulombe, C. Houssin and A. Ghazi, Fast and slow kinetics of porin channels from *Escherichia coli* reconstituted into giant liposomes and studied by patch-clamp 306 (1992) 251
Betzel, C. see M. Hennig 306 (1992) 80
Biel, M. see D. Singer-Lahat 306 (1992) 113
Blasi, F. see P. Ragno 306 (1992) 193
Bogachev, A.V. see A.V. Avetisyan 306 (1992) 199
Borisova, O.F., A.K. Shchyolkina, E.N. Timofeev and V.L. Florentiev, Evidence for the tetraplex structure of the $d(GT)_n$ repetitive sequences in solution 306 (1992) 140
Brickell, P.M. see A.J. Symes 306 (1992) 229
Brown, K.D. see M.G. Gomperts 306 (1992) 1
Canters, G.W. see H. Nar 306 (1992) 119
Carpenter, B.G. see R.J. Heads 306 (1992) 66
Cassano, S. see P. Ragno 306 (1992) 193
Caubergs, R.J. see H. Asard 306 (1992) 143
Cerdá-Olmedo, E. see E.R. Bejarano 306 (1992) 209
Chambers, T.C. see R.J. Heads 306 (1992) 66
Chan, A.C. see C.T. Ho 306 (1992) 269
Chatterji, D. see K.P. Kumar 306 (1992) 46
Chen, M.X., Y.H. Chen and P.T.W. Cohen, Polymerase chain reactions using *Saccharomyces, Drosophila* and human DNA predict a large family of protein serine/threonine phosphatases 306 (1992) 54
Chen, Y.H. see M.X. Chen 306 (1992) 54
Chidgeavadze, Z.G. see A.A. Yuzhakov 306 (1992) 185
Christensen, M. see E.M. Nicolaisen 306 (1992) 157
Christensen, U. see J. Schiødt 306 (1992) 265
Cloutier, J.-M. see M. Zafarullah 306 (1992) 169
Cohen, P.T.W. see M.X. Chen 306 (1992) 54
Colas, P. see T. Lorca 306 (1992) 90
Corps, A.N. see M.G. Gomperts 306 (1992) 1
Coulombe, A. see C. Berrier 306 (1992) 251
Craig, R.K. see A.J. Symes 306 (1992) 229
Crumpton, M.J. see H.P.C. Driessen 306 (1992) 75
Cunnane, S.C., Carbon-by-carbon discrimination of ^{13}C incorporation into liver fatty acids 306 (1992) 273
Danilova, R.A. see I.P. Ashmarin 306 (1992) 38
Dascal, N. see D. Singer-Lahat 306 (1992) 113
Dauter, Z. see M. Hennig 306 (1992) 80
de Avila, A.C. see P. de Haan 306 (1992) 27
De Gier, J.-W.L., R.J.M. Van Spanning, L.F. Oltmann and A.H. Stouthamer, Oxidation of methylamine by a *Paracoccus denitrificans* mutant impaired in the synthesis of the bc_1 complex and the aa_3-type oxidase: Evidence for the existence of an alternative cytochrome *c* oxidase in this bacterium 306 (1992) 23
de Haan, P., A.C. de Avila, R. Kormelink, A. Westerbroek, J.J.L. Gielen, D. Peters and R. Goldbach, The nucleotide sequence of the S RNA of *Impatiens* necrotic spot virus, a novel tospovirus 306 (1992) 27
de Vos, W.M. see P.S.T. Tan 306 (1992) 9
Degen, J. see P. Ragno 306 (1992) 193
Dent, P. see T.A.J. Haystead 306 (1992) 17
Devault, A. see T. Lorca 306 (1992) 90
Devignes-Morch, M.-D. see R.P.C. Valle 306 (1992) 133
Dittrich, E. see D. Zohlnhöfer 306 (1992) 219
Dorée, M. see T. Lorca 306 (1992) 90
Driessen, H.P.C., R.H. Newman, P.S. Freemont and M.J. Crumpton, A model of the structure of human annexin VI bound to lipid monolayers 306 (1992) 75
Drugeon, G. see R.P.C. Valle 306 (1992) 133
Eriksson, K.-E.L. see M. Samejima 306 (1992) 165
Esipova, N.G. see A.A. Makarov 306 (1992) 63
Fedorova, I.M. see I.P. Ashmarin 306 (1992) 38
Fesquet, D. see T. Lorca 306 (1992) 90
Fincher, G.B. see N. Slakeski 306 (1992) 98
Flockerzi, V. see D. Singer-Lahat 306 (1992) 113
Florentiev, V.L. see O.F. Borisova 306 (1992) 140
Fowlkes, D.M. see F.W.G. Leebeek 306 (1992) 262
Freemont, P.S. see H.P.C. Driessen 306 (1992) 75
Frère, J.-M. see D. Monnaie 306 (1992) 108
Gambale, F., G. Rauch, G. Belmonte and G. Menestrina, Properties of *Pseudomonas aeruginosa* exotoxin A ionic channel incorporated in planar lipid bilayers 306 (1992) 41
Gedamu, L. see M. Zafarullah 306 (1992) 169
Gershon, E. see D. Singer-Lahat 306 (1992) 113
Ghazi, A. see C. Berrier 306 (1992) 251
Gielen, J.J.L. see P. de Haan 306 (1992) 27
Gillespie, J.G. and D.G. Hardie, Phosphorylation and inactivation of HMG-CoA reductase at the AMP-activated protein kinase site in response to fructose treatment of isolated rat hepatocytes 306 (1992) 59
Górny, A. see A. Mackiewicz 306 (1992) 257
Goldbach, R. see P. de Haan 306 (1992) 27
Goldspink, G. see D.J. Wells 306 (1992) 203
Gomperts, M.G., A.N. Corps, J.C. Pascall and K.D. Brown, Mitogen-induced expression of the primary response gene cMG1 in a rat intestinal epithelial cell-line (RIE-1) 306 (1992) 1
Graeve, L. see D. Zohlnhöfer 306 (1992) 219
Haenni, A.-L. see R.P.C. Valle 306 (1992) 133
Hansen, A.P. and S.P. Sheikh, Y_2 receptor proteins for peptide YY and neuropeptide Y: Characterization as *N*-linked complex glycoproteins 306 (1992) 147
Hardie, D.G. see J.G. Gillespie 306 (1992) 59
Harrit, N. see J. Schiødt 306 (1992) 265

Hauptmann, R. see R.B. Pepinsky 306 (1992) 85
Hayashi, M. see T. Unemoto 306 (1992) 51
Haystead, C.M.M. see T.A.J. Haystead 306 (1992) 17
Haystead, T.A.J., P. Dent, J. Wu, C.M.M. Haystead and T.W. Sturgill, Ordered phosphorylation of p42^{mapk} by MAP kinase kinase 306 (1992) 17
Heads, R.J., B.G. Carpenter, H.V. Rickenberg and T.C. Chambers, The lysine-rich H1 histones from the slime moulds, *Physarum polycephalum* and *Dictyostelium discoideum* lack phosphorylation sites recognised by cyclic AMP-dependent protein kinase in vitro 306 (1992) 66
Hedner, U. see E.M. Nicolaisen 306 (1992) 157
Heinrich, P.C. see D. Zohlnhöfer 306 (1992) 219
Heinrich, P.C. see A. Mackiewicz 306 (1992) 257
Hennig, M., B. Schlesier, Z. Dauter, S. Pfeffer, C. Betzel, W.E. Höhne and K.S. Wilson, A TIM barrel protein without enzymatic activity?: Crystal-structure of narbonin at 1.8 Å resolution 306 (1992) 80
Hensel, R. see S. Scholz 306 (1992) 239
Hizi, A. see M. Bakhanashvili 306 (1992) 151
Höhne, W.E. see M. Hennig 306 (1992) 80
Ho, C.T. and A.C. Chan, Regeneration of vitamin E in rat polymorphonuclear leucocytes 306 (1992) 269
Hofmann, F. see D. Singer-Lahat 306 (1992) 113
Horemans, N. see H. Asard 306 (1992) 143
Houssin, C. see C. Berrier 306 (1992) 251
Huber, R. see H. Nar 306 (1992) 119
Hullin, R. see D. Singer-Lahat 306 (1992) 113
Ihara, H., C. Yokoyama, A. Miyata, T. Kosaka, R. Nüsing, V. Ullrich and T. Tanabe, Induction of thromboxane synthase and prostaglandin endoperoxide synthase mRNAs in human erythroleukemia cells by phorbol ester 306 (1992) 161
Ikeda, S.-i. see M. Nakazato 306 (1992) 206
Irie, M. see H. Kurihara 306 (1992) 189
Jacobsen, J.K. see E.M. Nicolaisen 306 (1992) 157
Jäger, J., T. Solmajer and J.N. Jansonius, Computational approach towards the three-dimensional structure of *E. coli* tyrosine aminotransferase 306 (1992) 234
Jansonius, J.N. see J. Jäger 306 (1992) 234
Kajio, T., K. Kawahara and K. Kato, Stabilization of basic fibroblast growth factor with dextran sulfate 306 (1992) 243
Kaku, H. and N. Shibuya, Preparation of a stable subunit of Japanese elderberry (*Sambucus sieboldiana*) bark lectin and its application for the study of cell surface carbohydrates by flow cytometry 306 (1992) 176
Kangawa, K. see M. Nakazato 306 (1992) 206
Kato, K. see T. Kajio 306 (1992) 243
Kawahara, K. see T. Kajio 306 (1992) 243
Kerber, B. and J. Soll, Transfer of a chloroplast-bound precursor protein into the translocation apparatus is impaired after phospholipase C treatment 306 (1992) 71
Kessler, C. see P. Ragno 306 (1992) 193
Kochetkov, S.N. see V.O. Rechinsky 306 (1992) 129
Konings, W.N. see P.S.T. Tan 306 (1992) 9
Kormelink, R. see P. de Haan 306 (1992) 27
Kosaka, T. see H. Ihara 306 (1992) 161
Kostyuk, D.A. see V.O. Rechinsky 306 (1992) 129
Krasnovsky, A.A. see I.A. Shumilin 306 (1992) 125
Kumada, M. see N. Takuwa 306 (1992) 173
Kumar, K.P. and D. Chatterji, Differential inhibition of abortive transcription initiation at different promoters catalysed by *E. coli* RNA polymerase: Effect of rifampicin on purine or pyramidine-initiated phosphodiester synthesis 306 (1992) 46
Kurihara, H., Y. Mitsui, K. Ohgi, M. Irie, H. Mizuno and K.T. Nakamura, Crystal and molecular structure of RNase Rh, a new class of microbial ribonuclease from *Rhizopus niveus* 306 (1992) 189
Laciak, M. see A. Mackiewicz 306 (1992) 257
Lazaro, J.B. see T. Lorca 306 (1992) 90
Lee, C.-Y., On the activation–inactivation coupling in *Shaker* potassium channels 306 (1992) 95
Leebeek, F.W.G. and D.M. Fowlkes, Construction and functional analysis of hybrid interleukin-6 variants: Characterization of the role of the C-terminus for species specificity 306 (1992) 262
Legocki, A.B. see R.P.C. Valle 306 (1992) 133
Li, N., Z. Wiesman, D. Liu and A.K. Mattoo, A functional tomato ACC synthase expressed in *Escherichia coli* demonstrates suicidal inactivation by its substrate *S*-adenosylmethionine 306 (1992) 103
Liu, D. see N. Li 306 (1992) 103
Lobachov, V.M. see A.A. Makarov 306 (1992) 63
Lorca, T., A. Devault, P. Colas, A. Van Loon, D. Fesquet, J.B. Lazaro and M. Dorée, Cyclin A-Cys41 does not undergo cell cycle-dependent degradation in *Xenopus* extracts 306 (1992) 90
Lotan, I. see D. Singer-Lahat 306 (1992) 113
Luo, J., M.H. Sarma, R.-d. Yuan and R.H. Sarma, NMR study of self-paired parallel duplex of d(AAAAACCCCC) in solution 306 (1992) 223
Mackiewicz, A., S. Rose-John, H. Schooltink, M. Laciak, A. Górny and P.C. Heinrich, Soluble human interleukin-6-receptor modulates interleukin-6-dependent *N*-glycosylation of α_1-protease inhibitor secreted by HepG2 cells 306 (1992) 257
Makarov, A.A., V.M. Lobachov, I.A. Adzhubei and N.G. Esipova, Natural polypeptides in left-handed helical conformation: A circular dichroism study of the linker histones' C-terminal fragments and β-endorphin 306 (1992) 63
Martel-Pelletier, J. see M. Zafarullah 306 (1992) 169
Matsukura, S. see M. Nakazato 306 (1992) 206
Matsuo, H. see M. Nakazato 306 (1992) 206
Mattoo, A.K. see N. Li 306 (1992) 103
Menestrina, G. see F. Gambale 306 (1992) 41
Messerschmidt, A. see H. Nar 306 (1992) 119
Mitsui, Y. see H. Kurihara 306 (1992) 189
Miyata, A. see H. Ihara 306 (1992) 161
Miyoshi, T. see T. Unemoto 306 (1992) 51
Mizuno, H. see H. Kurihara 306 (1992) 189
Monnaie, D., R. Virden and J.-M. Frère, A rapid-kinetic study of the class C β-lactamase of *Enterobacter cloacae* 908R 306 (1992) 108
Murtasina, R.A. see A.V. Avetisyan 306 (1992) 199
Nakae, T. see E. Yoshihara 306 (1992) 5
Nakamura, K.T. see H. Kurihara 306 (1992) 189
Nakazato, M., S.-i. Ikeda, K. Shiomi, S. Matsukura, K. Yoshida, H. Shimizu, T. Atsumi, K. Kangawa and H. Matsuo, Identification of a novel transthyretin variant (Val^{30}→Leu) associated with familial amyloidotic polyneuropathy 306 (1992) 206
Nar, H., A. Messerschmidt, R. Huber, M. van de Kamp and G.W. Canters, Crystal structure of *Pseudomonas aeruginosa* apo-azurin at 1.85 Å resolution 306 (1992) 119
Newman, R.H. see H.P.C. Driessen 306 (1992) 75
Nicolaisen, E.M., L.C. Petersen, L. Thim, J.K. Jacobsen, M. Christensen and U. Hedner, Generation of Gla-domainless FVIIa by cathepsin G-mediated cleavage 306 (1992) 157
Nikandrov, V.V. see I.A. Shumilin 306 (1992) 125
Nüsing, R. see H. Ihara 306 (1992) 161

Obukhova, M.F. see I.P. Ashmarin 306 (1992) 38
Ohgi, K. see H. Kurihara 306 (1992) 189
Oliveira, C.M. see D.K. Banerjee 306 (1992) 33
Oltmann, L.F. see J.-W.L. De Gier 306 (1992) 23
Pascall, J.C. see M.G. Gomperts 306 (1992) 1
Pelletier, J.-P. see M. Zafarullah 306 (1992) 169
Pepinsky, R.B. and R. Hauptmann, Detection of VAC-β (annexin-8) in human placenta 306 (1992) 85
Peters, D. see P. de Haan 306 (1992) 27
Petersen, L.C. see J. Schiødt 306 (1992) 265
Petersen, L.C. see E.M. Nicolaisen 306 (1992) 157
Pfeffer, S. see M. Hennig 306 (1992) 80
Phillips, R.S. see M. Samejima 306 (1992) 165
Poolman, B. see P.S.T. Tan 306 (1992) 9
Popov, V.O. see I.A. Shumilin 306 (1992) 125
Pshezhetsky, A.V. see I.P. Ashmarin 306 (1992) 38
Ragno, P., S. Cassano, J. Degen, C. Kessler, F. Blasi and G. Rossi, The receptor for the plasminogen activator of urokinase type is up-regulated in transformed rat thyroid cells 306 (1992) 193
Rauch, G. see F. Gambale 306 (1992) 41
Rechinsky, V.O., D.A. Kostyuk, V.L. Tunitskaya and S.N. Kochetkov, On the functional role of the Tyr-639 residue of bacteriophage T7 RNA polymerase 306 (1992) 129
Rickenberg, H.V. see R.J. Heads 306 (1992) 66
Rose-John, S. see D. Zohlnhöfer 306 (1992) 219
Rose-John, S. see A. Mackiewicz 306 (1992) 257
Rossi, G. see P. Ragno 306 (1992) 193
Sagimbaeva, S. see I.P. Ashmarin 306 (1992) 38
Samejima, M., R.S. Phillips and K.-E.L. Eriksson, Cellobiose oxidase from *Phanerochaete chrysosporium*: Stopped-flow spectrophotometric analysis of pH-dependent reduction 306 (1992) 165
Sarma, M.H. see J. Luo 306 (1992) 223
Sarma, R.H. see J. Luo 306 (1992) 223
Schäfer, W. see S. Scholz 306 (1992) 239
Schiødt, J., N. Harrit, U. Christensen and L.C. Petersen, Two different Ca^{2+} ion binding sites in factor VIIa and in des(1–38) factor VIIa 306 (1992) 265
Schlesier, B. see M. Hennig 306 (1992) 80
Scholz, S., J. Sonnenbichler, W. Schäfer and R. Hensel, Di-myo-inositol-1,1′-phosphate: a new inositol phosphate isolated from *Pyrococcus woesei* 306 (1992) 239
Schooltink, H. see D. Zohlnhöfer 306 (1992) 219
Schooltink, H. see A. Mackiewicz 306 (1992) 257
Shchyolkina, A.K. see O.F. Borisova 306 (1992) 140
Sheikh, S.P. see A.P. Hansen 306 (1992) 147
Shibuya, N. see H. Kaku 306 (1992) 176
Shimizu, H. see M. Nakazato 306 (1992) 206
Shiomi, K. see M. Nakazato 306 (1992) 206
Shumilin, I.A., V.V. Nikandrov, V.O. Popov and A.A. Krasnovsky, Photogeneration of NADH under coupled action of CdS semiconductor and hydrogenase from *Alcaligenes eutrophus* without exogenous mediators 306 (1992) 125
Siezen, R.J. see P.S.T. Tan 306 (1992) 9
Singer-Lahat, D., E. Gershon, I. Lotan, R. Hullin, M. Biel, V. Flockerzi, F. Hofmann and N. Dascal, Modulation of cardiac Ca^{2+} channels in *Xenopus* oocytes by protein kinase C 306 (1992) 113
Skulachev, V.P. see A.V. Avetisyan 306 (1992) 199
Slakeski, N. and G.B. Fincher, Barley (1→3,1→4)-β-glucanase isoenzyme EI gene expression is mediated by auxin and gibberellic acid 306 (1992) 98
Soll, J. see B. Kerber 306 (1992) 71
Solmajer, T. see J. Jäger 306 (1992) 234
Sonnenbichler, J. see S. Scholz 306 (1992) 239
Stouthamer, A.H. see J.-W.L. De Gier 306 (1992) 23
Sturgill, T.W. see T.A.J. Haystead 306 (1992) 17
Symes, A.J., R.K. Craig and P.M. Brickell, Loss of transcriptional repression contributes to the ectopic expression of the calcitonin/α-CGRP gene in a human lung carcinoma cell line 306 (1992) 229
Takuwa, N., W. Zhou, M. Kumada and Y. Takuwa, Ca^{2+}/calmodulin is involved in growth factor-induced retinoblastoma gene product phosphorylation in human vascular endothelial cells 306 (1992) 173
Takuwa, Y. see N. Takuwa 306 (1992) 173
Tan, P.S.T., I.J. van Alen-Boerrigter, B. Poolman, R.J. Siezen, W.M. de Vos and W.N. Konings, Characterization of the *Lactococcus lactis pepN* gene encoding an aminopeptidase homologous to mammalian aminopeptidase N 306 (1992) 9
Tanabe, T. see H. Ihara 306 (1992) 161
Tavárez, J.J. see D.K. Banerjee 306 (1992) 33
Thim, L. see E.M. Nicolaisen 306 (1992) 157
Timofeev, E.N. see O.F. Borisova 306 (1992) 140
Trueb, B. see J. Trueb 306 (1992) 181
Trueb, J. and B. Trueb, Molecular cloning of a novel ras-like protein from chicken 306 (1992) 181
Tunitskaya, V.L. see V.O. Rechinsky 306 (1992) 129
Ullrich, V. see H. Ihara 306 (1992) 161
Unemoto, T., T. Miyoshi and M. Hayashi, Characteristic differences in the mode of quinone reduction and stability between energy-coupled and -uncoupled NADH-quinone reductases from bacterial respiratory chain 306 (1992) 51
Valle, R.P.C., G. Drugeon, M.-D. Devignes-Morch, A.B. Legocki and A.-L. Haenni, Codon context effect in virus translational readthrough: A study in vitro of the determinants of TMV and Mo-MuLV amber suppression 306 (1992) 133
van Alen-Boerrigter, I.J. see P.S.T. Tan 306 (1992) 9
van de Kamp, M. see H. Nar 306 (1992) 119
Van Loon, A. see T. Lorca 306 (1992) 90
Van Spanning, R.J.M. see J.-W.L. De Gier 306 (1992) 23
Vilsen, B. and J.P. Andersen, Deduced amino acid sequence and E_1–E_2 equilibrium of the sarcoplasmic reticulum Ca^{2+}-ATPase of frog skeletal muscle: Comparison with the Ca^{2+}-ATPase of rabbit fast twitch muscle 306 (1992) 213
Vilsen, B. and J.P. Andersen, Mutational analysis of the role of Glu^{309} in the sarcoplasmic reticulum Ca^{2+}-ATPase of frog skeletal muscle 306 (1992) 247
Virden, R. see D. Monnaie 306 (1992) 108
Wells, D.J. and G. Goldspink, Age and sex influence expression of plasmid DNA directly injected into mouse skeletal muscle 306 (1992) 203
Westerbroek, A. see P. de Haan 306 (1992) 27
Wiesman, Z. see N. Li 306 (1992) 103
Wilson, K.S. see M. Hennig 306 (1992) 80
Wu, J. see T.A.J. Haystead 306 (1992) 17
Yokoyama, C. see H. Ihara 306 (1992) 161
Yoshida, K. see M. Nakazato 306 (1992) 206
Yoshihara, E. and T. Nakae, Separation of gate- and channel-forming domains in the pore-forming protein of the outer membrane of *Pseudomonas aeruginosa* 306 (1992) 5
Yuan, R.-d. see J. Luo 306 (1992) 223
Yuzhakov, A.A., Z.G. Chidgeavadze and R.S. Beabealashvilli, 3′-Mercapto-2′,3′-dideoxynucleotides are high effective terminators of DNA synthesis catalyzed by HIV reverse transcriptase 306 (1992) 185
Zafarullah, M., J. Martel-Pelletier, J.-M. Cloutier, L. Gedamu and J.-P. Pelletier, Expression of c-*fos*, c-*jun*, *jun*-B, metallothionein and metalloproteinase genes in human chondrocyte 306 (1992) 169

Zhou, W. see N. Takuwa 306 (1992) 173
Zohlnhöfer, D., L. Graeve, S. Rose-John, H. Schooltink, E. Dittrich and P.C. Heinrich, The hepatic interleukin-6 receptor: Down-regulation of the interleukin-6 binding subunit (gp80) by its ligand 306 (1992) 219